

ABSTRACT

A system for providing connectivity to co-located instruments includes a processor for receiving and processing GPS data and IMU data, a GPS receiver antenna operable to supply the GPS data to the processor, and an IMU, co-located with the GPS receiver antenna, operable to provide the IMU data to the processor. A single cable is provided between the processor and co-located equipment and, by using filtering mechanisms, the single cable is operable to simultaneously supply DC power to the IMU and to transmit the GPS data and the IMU data to the processor.